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Jameco Part Number 203001

Series A

Washable Subminiature Switches

TYPICAL SWITCH ORDERING EXAMPLE

AS	2	2	A	H

POLES	
1	SPST
	SPDT
2	DPDT
	SP3T

CIRCUITS			
1	ON	NONE	OFF
2	ON	NONE	ON
3	ON	OFF	ON
4	ON	ON	ON

ACTUATORS	
A	2.5mm Long
B	Flush
C	3.8mm Long

PC TERMINALS	
P	Straight
B	Straight w/Bracket
H	Right Angle w/Bracket
V	Vertical w/Bracket

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

AS22AH

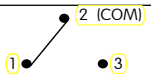
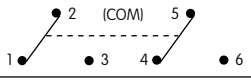
DPDT
ON-NONE-ON Circuit

Gray 2.5mm Long Actuator

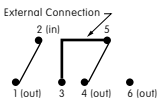
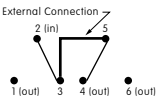
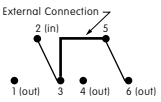
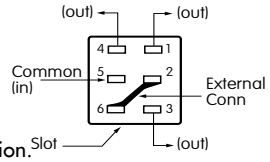
Right Angle PC Terminals

General Specifications | Dimensions 1 | Dimensions 2

POLES & CIRCUITS

		Slide Position ( ) = Momentary			Connected Terminals			Throw & Schematics
Pole	Model	Left	Center	Right	Left	Center	Right	Note: Terminal numbers are not actually on the switch.
SP	AS11	ON	NONE	OFF	3-1	OPEN	OPEN	SPST
SP	AS12 AS13	ON ON	NONE OFF	ON ON	2-1 2-1	OPEN OPEN	2-3 2-3	SPDT 
DP	AS22 AS23	ON ON	NONE OFF	ON ON	2-1 5-4 2-1 5-4	OPEN OPEN	2-3 5-6 2-3 5-6	DPDT 

For 3 Throw (3-On)

Connected Terminals & Schematics					External Connection
Pole	Model	Left	Center	Right	
SP	AS24	ON  2-1 5-4	ON  2-3 5-4	ON  2-3 5-6	The SP3T model utilizes a double pole base. External connections must be made during field installation. 

GENERAL SPECIFICATIONS

Electrical Capacity (Resistive Load)

Logic Level: 0.4VA maximum @ 28V AC/DC maximum
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
Note: See Supplement Index to find explanation of operating range.

Other Ratings

Contact Resistance: 50 milliohms maximum
Insulation Resistance: 500 megohms minimum @ 500V DC
Dielectric Strength: 500V AC minimum
Mechanical Life: 50,000 operations minimum
Electrical Life: 50,000 operations minimum
Nominal Operating Force: 260 grams
Contact Timing: Nonshorting (break-before-make)
Travel: 2.1mm (.082") pretravel; 0.4mm (.016") overtravel; 2.5mm (.098") total travel

Materials & Finishes

Actuator: Fiberglass reinforced polyamide
Upper Case Housing: Carbon composite polyacetal (antistatic)
Lower Case Housing: Fiberglass reinforced polyamide
Support Bracket: Tin plated phosphor bronze
Movable Contact: Phosphor bronze with gold plating over silver plating
Stationary Contacts: Brass with gold plating over nickel plating
Terminals: Brass with gold plating over nickel plating

Environmental Data

Operating Temp Range: -30°C through +85°C (-22°F through +185°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50g acceleration (tested in 6 right angled directions, with 3 shocks in each direction)

Installation

Soldering Time & Temperature: 3 seconds @ 350°C or 5 seconds @ 270°C
Process Seal: Not available

Standards & Certifications

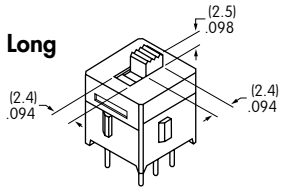
IECQ Approved: All slide models approved at 0.4VA maximum @ 28V AC/DC maximum
Qualification Approval Number: JP792-5A

Series A

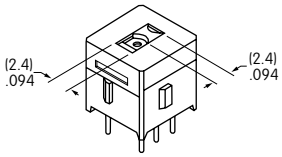
Subminiature Slide Switches

ACTUATORS

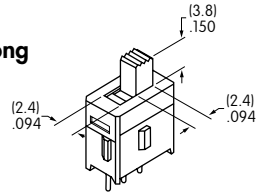
A **2.5mm Long**



B **Flush**



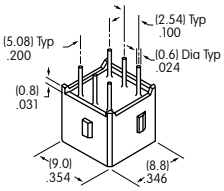
C **3.8mm Long**



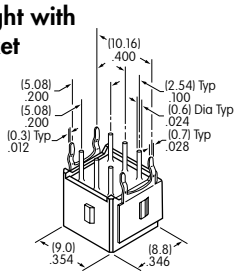
Actuator Color: Gray standard Contact factory for other colors.

PC TERMINALS

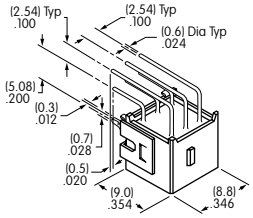
P **Straight**



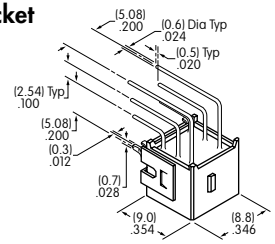
B **Straight with Bracket**



H **Right Angle with Bracket**



V **Vertical with Bracket**

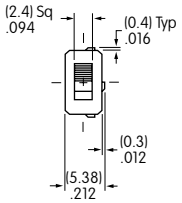


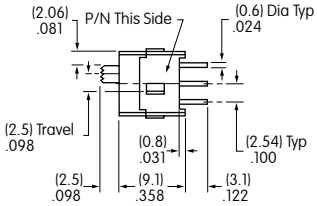
Use of a support bracket is recommended to increase PCB mounting stability.

TYPICAL SWITCH DIMENSIONS

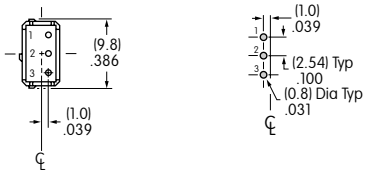
Straight PC — Single Pole

AS12AP





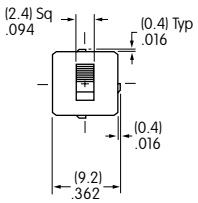
Actuator shown in LEFT position.

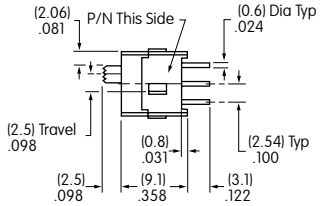


Single throw models do not have terminal 2.

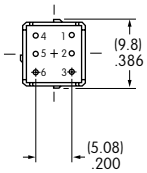
Straight PC — Double Pole

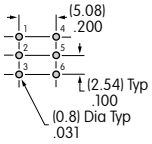
AS22AP





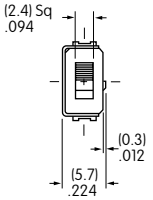
Actuator shown in LEFT position.

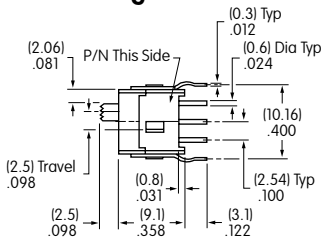




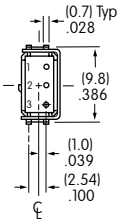
Straight PC • Bracket — Single Pole

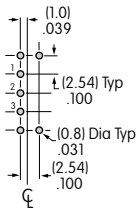
AS12AB





Actuator shown in LEFT position.

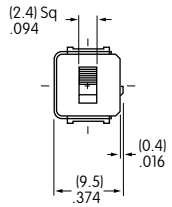


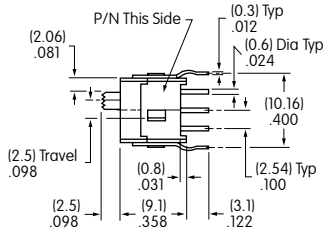


TYPICAL SWITCH DIMENSIONS

Straight PC • Bracket

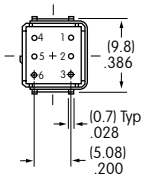
AS22AB

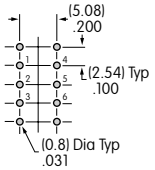




Actuator shown in LEFT position.

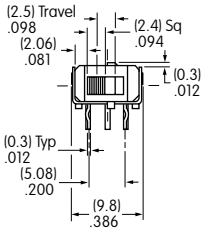
Double Pole

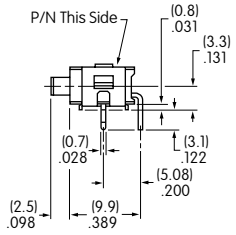




Right Angle PC

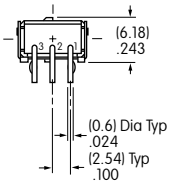
AS12AH

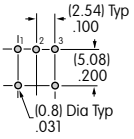




Actuator shown in LEFT position.

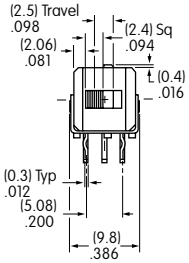
Single Pole

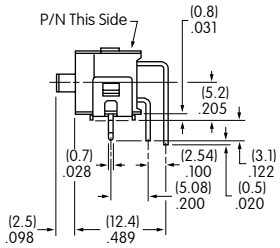




Right Angle PC

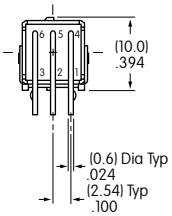
AS22AH

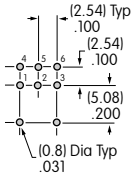




Actuator shown in LEFT position.

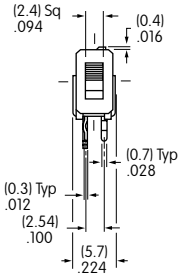
Double Pole

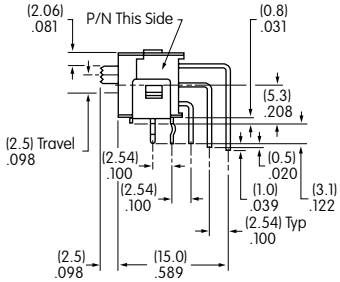




Vertical PC

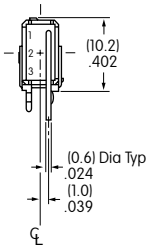
AS12AV

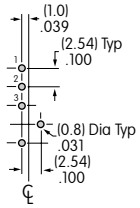




Actuator shown in LEFT position.

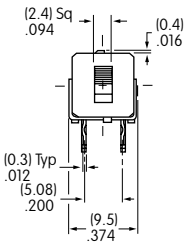
Single Pole

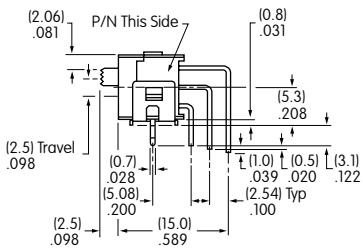




Vertical PC

AS22AV





Actuator shown in LEFT position.

Double Pole